



| | | | |
|---|----|---|-------------------------------|
| Form PTO-1449 Modified List of Patent and Publications Cited by Applicant (Use several sheets if necessary) U.S. Department of Commerce Patent and Trademark Office | | Docket No. GLIS-0161 | Application No. 10/730,643 |
| | | Applicant Brian C. Froehler, et al. | |
| | | Filing Date December 8, 2003 | Group Not Yet Assigned |
| | | Confirmation No. Not Yet Assigned | |
| OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.) | | | |
| | 1 | Balzarini, et al., "Incorporation of 5-substituted pyrimidine nucleoside analogs into DNA of a thymidylate synthetase-deficient murine FM3A carcinoma cell line," <i>Chem. Ab.</i> , 1985, 103(3), 16283a | |
| | 2 | Beal, et al., "Second structural motif for recognition of DNA by oligonucleotide-directed triple-helix formation," <i>Science</i> , 1990, 251, 1360-1363 | |
| | 3 | Capobianco, et al., "One pot solution synthesis of cyclic oligodeoxyribonucleotides," <i>Nuc. Acids Res.</i> , 1990, 18, 2661-2669 | |
| | 4 | Cooney, et al., "Site-specific oligonucleotide binding represses transcription of the human c-myc gene in vitro," <i>Science</i> , 1988, 241, 456-459 | |
| | 5 | Fedorovo, et al., "Complementary addressed modification of double-stranded DNA within a ternary complex," <i>FEBS</i> , 1988, 228, 273-276 | |
| | 6 | Felgner, et al., "Lipofection: a highly efficient, liquid-mediated DNA-transfection procedure," <i>Proc. Natl. Acad. Sci.</i> , 1987, 84, 7413-7417 | |
| | 7 | Griffin, et al., "Recognition of thymine-adenine base pairs by guanine in a pyrimidine triple helix motif," <i>Science</i> , 1989, 245, 967-971 | |
| | 8 | Horne, et al., "Recognition of mixed-sequence duplex DNA by alternate-strand triple-helix formation," <i>J. Am. Chem. Soc.</i> , 1990, 112, 2435-2437 | |
| | 9 | Iyerson, et al., "Nonenzymatic sequence-specific cleavage of single-stranded DNA to nucleotide resolution. DNA methyl thioether probes," <i>J. Am. Chem. Soc.</i> , 1987, 109, 1241-1243 | |
| | 10 | Knorre, et al., "Reactive oligonucleotide derivatives and sequence-specific modification of nucleic acids," <i>Biochimie</i> , 1985, 67, 785-789 | |
| EXAMINER | | | DATE CONSIDERED 12/28/04 |



| | | | |
|---|----|---|-------------------------------|
| Form PTO-1449 Modified List of Patent and Publications Cited by Applicant (Use several sheets if necessary) U.S. Department of Commerce Patent and Trademark Office | | Docket No. GLIS-0161 | Application No. 10/730,643 |
| | | Applicant Brian C. Froehler, et al. | |
| | | Filing Date December 8, 2003 | Group Not Yet Assigned |
| | | Confirmation No. Not Yet Assigned | |
| OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.) | | | |
| u | 11 | Lee, et al., "Interaction of psoralen-derivatized oligodexoyribonucleoside methylphosphonates with single-stranded DNA," <i>Biochem</i> , 1988 , 27, 3197-3203 | |
| | 12 | Maher, et al., "Inhibition of DNA binding proteins by oligonucleotide-directed triple helix formation," <i>Science</i> , 1989 , 245, 725-730 | |
| | 13 | Meyer, et al., "Efficient specific cross-linking and cleavage of DNA by stable, synthetic complementary oligodeoxynucleotides," <i>J. Am. Chem. Soc.</i> , 1989 , 111, 8517-8519 | |
| | 14 | Moser, et al., "Sequence-specific cleavage of double helical DNA by triple helix formation," <i>Science</i> , 1987 , 238, 645-650 | |
| | 15 | Povsic, et al., "Triple helix formation by oligonucleotides on DNA extended to the physiological pH range," <i>J. Am. Chem. Soc.</i> , 1989 , 111, 3059-3061 | |
| | 16 | Praseuth, et al., "Sequence-specific binding and photocrosslinking of a and b oligodeoxynucleotides to the major groove of DNA via triple-helix formation," <i>Proc. Natl. Acad. Sci.</i> , 1988 , 85, 1349-1353 | |
| | 17 | Rahim, "Preparation of 5-prop-1-ynyl-1-(5-0-trimethyl...," <i>Chem. Ab.</i> , 1990 , 113(25), 231937d | |
| | 18 | Uhlmann, et al., "Antisense oligonucleotides: a new therapeutic principle," <i>chem. Rev.</i> , 1990 , 90, 543-584 | |
| | 19 | Valko, et al., "Application of chromatographic retention data in a quantitative structure-nucleotide incorporation rate relationship," <i>J. Chromatog</i> , 1990 , 506, 35-44 | |
| u | 20 | Valko, et al., "Correlation of nucleotide incorporation rate and HPLC retention parameters of substituted nucleosides," <i>J. Liquid chromatog</i> , 1989 , 12, 2103-2116 | |
| EXAMINER | | <i>Deerlin</i> | DATE CONSIDERED 12/28/04 |



| | | | |
|---|----|---|-------------------------------|
| Form PTO-1449 Modified List of Patent and Publications Cited by Applicant (Use several sheets if necessary) U.S. Department of Commerce Patent and Trademark Office | | Docket No. GLIS-0161 | Application No. 10/730,643 |
| | | Applicant Brian C. Froehler, et al. | |
| | | Filing Date December 8, 2003 | Group Not Yet Assigned |
| | | Confirmation No. Not Yet Assigned | |
| OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.) | | | |
| 4 | 21 | Vlassov, et al., "Complementary addressed modification and cleavage of a single stranded DNA fragment with alkylating oligonucleotide derivatives," <i>Nuc. Acids Res.</i> , 1986, 14, 4065-4076 | |
| | 22 | Vlassov, et al., "Sequence-specific chemical modification of double-stranded DNA with alkylating oligodeoxyribonucleotide derivatives," <i>Gene</i> , 1988, 72, 313-322 | |
| | 23 | Webb, et al., "Hybridization triggered cross-linking of deoxyoligonucleotides," <i>Nuc. Acids Res.</i> , 1986, 14, 7661-7674 | |
| | 24 | Webb, et al., "Sequence-specific cross-linking of deoxyoligonucleotides via hybridization-triggered alkylation," <i>J. Am. Chem. Soc.</i> , 1986, 108, 2764-2765 | |
| | 25 | van de Sande, "Parallel stranded DNA," <i>Science</i> , 1988, 241, 77-557 | |
| | 26 | van der Krol, et al., "Modulation of eukaryotic gene expression by complementary RNA or DNA sequences," <i>Biotechniques</i> , 1988, 6, 958-976 | |
| | 27 | Ötvös, et al., "Substrate specificity of DNA polymerases. I. Enzyme-catalysed incorporation of 5-(1-alkenyl)-2'-deoxyuridines into DNA," <i>Nuc. Acids Res.</i> , 1987, 15, 1763-1777 | |
| | 28 | Ötvös, et al., "Substrate specificity of DNA polymerases. II. 5-(1-alkynyl)-dUTPs as substrates of the Klenow DNA polymerase enzyme," <i>Chem. Ab.</i> , 1987, 107(23), 214012g | |
| | 29 | Augustyns, et al., "Incorporation of hexose nucleoside analogues into oligonucleotides: synthesis, base-pairing properties and enzymatic stability," <i>Nuc. Acids Res.</i> , 1992, 20, 4711-4716 | |
| 16 | 30 | Chiang, et al., "Antisense oligonucleotides inhibit intercellular adhesion molecule 1 expression by two distinct mechanisms," <i>J. Bio. Chem.</i> , 1991, 266, 18162-18171 | |
| EXAMINER | | DATE CONSIDERED 12/28/04 | |



| | | | |
|---|----|---|--|
| Form PTO-1449 Modified List of Patent and Publications Cited by Applicant (Use several sheets if necessary) U.S. Department of Commerce Patent and Trademark Office | | Docket No. GLIS-0161 | Application No. 10/730,643 |
| | | Applicant Brian C. Froehler, et al. | |
| | | Filing Date December 8, 2003 | Group Not Yet Assigned |
| | | Confirmation No. Not Yet Assigned | |
| OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.) | | | |
| | 31 | Clivio, et al., "Synthesis and purification of oligonucleotides containing sulfur substituted nucleobases: 4-thiouracil, 4-thiothymine and 6-mercaptopuine," <i>Tet. Letts.</i> , 1992, 33(1), 65-68 | |
| | 32 | Connolly, et al., "Synthesis and properties of oligonucleotides containing 4-thiothymidine, 5-methyl-2-pyrimidinone-1-b-D(2'-deoxyribose) and 2-thiothymidine," <i>Nuc. Acids Res.</i> , 1989, 17, 4957-4974 | |
| | 33 | De Clercq, et al., "Nucleic acid related compounds. 40. Synthesis and biological activities of 5-alkynyluracil nucleosides," <i>J. Med. Chem.</i> , 1983, 26, 661-666 | |
| | 34 | Egholm, et al., "Peptide nucleic acids (PNA). Oligonucleotide analogues with an achiral peptide backbone," <i>J. Am. Chem. Soc.</i> , 1992, 114, 1895-1897 | |
| | 35 | Froehler, et al., "Oligodeoxynucleotides containing C-5 propyne analogs of 2'-deoxyuridine and 2'-deoxycytidine," <i>Tet. Letts.</i> , 1992, 33, 5307-5310 | |
| | 36 | Froehler, et al., "Triple-helix formation and cooperative binding by oligodeoxynucleotides with a 3'-3' internucleotide junction," <i>Biochem.</i> , 1992, 31, 1603-1609 | |
| | 37 | Froehler, et al., "Triple-helix formation by oligodeoxynucleotides containing the carbocyclic analogs of thymidine and 5-methyl-2'-deoxycytidine," <i>J. Am. Chem. Soc.</i> , 1992, 114, 8820-8822 | |
| | 38 | Goodchild, et al., "Structural requirements of olefinic 5-substituted deoxyuridines for antiherpes activity," <i>J. Med. Chem.</i> , 1983, 26, 1252-1257 | |
| | 39 | Krawczyk, et al., "Oligonucleotide-mediated triple helix formation using an N[3]-protonated deoxycytidine analog exhibiting pH-independent binding within the physiological range," <i>Proc. Natl. Acad. Sci.</i> , 1992, 89, 3761-3764 | |
| | | 40 | Lee, et al., "Poly(pyrimidine) poly(purine) synthetic DNAs containing ???," <i>Nuc. Acids Res.</i> , 1984, 12, 6603-6614 |
| EXAMINER | | DATE CONSIDERED 12/28/04 | |



| | | | |
|---|----|--|-------------------------------|
| Form PTO-1449 Modified List of Patent and Publications Cited by Applicant (Use several sheets if necessary) U.S. Department of Commerce Patent and Trademark Office | | Docket No. GLIS-0161 | Application No. 10/730,643 |
| | | Applicant Brian C. Froehler, et al. | |
| | | Filing Date December 8, 2003 | Group Not Yet Assigned |
| | | Confirmation No. Not Yet Assigned | |
| OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.) | | | |
| u | 41 | Matteucci, et al., "Synthesis and crosslinking properties of a deoxyoligonucleotide containing N[6],N[6]-ethanodeoxyadenosine," <i>Tet. Letts.</i> , 1987 , 28; 2469-2472 | |
| | 42 | Ono, et al., "Triplex formation of an oligonucleotide containing 2'0-methylpseudoisocytidine with a DNA dupliex at neutral pH," <i>J. Org. Chem.</i> , 1992 , 57, 3225-3230 | |
| | 43 | Rahim, et al., "5-alkynl pyrimidine nucleosides as potent selective inhibitors of varicella-zoster virus," <i>Antiviral Chem. & Chemo.</i> , 1992 , 3, 293-297 | |
| | 44 | Reynolds, et al., "Synthesis of thymidine dimers containing internucleoside sulfonate and sulfonamide linkages," <i>J. org. Chem.</i> , 1992 , 57, 2983-2985 | |
| | 45 | Robins, et al., "Nucleic acid related compounds, 38. Smooth and high-yield iodination and chlorination at C-5 of uracil bases and p-totuy-protected nucleosides," <i>Can. J. Chem.</i> , 1982 , 60, 554-557 | |
| | 46 | Shaw, et al., "Specific, high-efficiency, triple-helix-mediated cross-linking to duplex DNA," <i>J. Am. Chem. Soc.</i> , 1991 , 113, 7765-7766 | |
| | 47 | Vasseur, et al., "Oligonucleosides: Synthesis of a novel methylhydroxylamine-linked nucleoside dimer and its incorproation into antisense sequences," <i>J. Am. Chem. Soc.</i> , 1992 , 114, 4006-4007 | |
| | 48 | Wigerinck, et al., "5-(5-bromothien-2-yl)-2'-deoxyuridine and 5-(5-chlorothien-2-yl)-2'-deoxyuridine are equipotent to (E)-5-(2'-bromovinyl)-2'-deoxyuridine in the inhibition of herpes simplex virus type 1 replication," <i>J. Med. Chem.</i> , 1991 , 34, 2383-2389 | |
| | 49 | Young, et al., "Triple helix formation inhibits transcription elongation in vitro," <i>Proc. Natl. Acad. Sci.</i> , 1991 , 88, 10023-10026 | |
| u | 50 | Albretsen, et al., "Optimal conditions for hybridization with oligonucleotides: A study with myc-oncogene DNA probes," <i>Anal. Biochem.</i> , 1988 , 170, 193-202 | |
| EXAMINER | | DATE CONSIDERED 12/28/04 | |



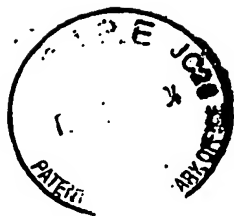
| | | | |
|---|----|--|-------------------------------|
| Form PTO-1449 Modified List of Patent and Publications Cited by Applicant (Use several sheets if necessary) U.S. Department of Commerce Patent and Trademark Office | | Docket No. GLIS-0161 | Application No. 10/730,643 |
| | | Applicant Brian C. Froehler, et al. | |
| | | Filing Date December 8, 2003 | Group Not Yet Assigned |
| | | Confirmation No. Not Yet Assigned | |
| OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.) | | | |
| 14 | 51 | Casey, et al., "Rates of formation and thermal stabilities of RNA-DNA duplexes at high concentration of formamide," <i>Nuc. Acids Res.</i> , 1997, 4(5), 1539-1552 | |
| | 52 | Hamaguchi, et al., "The effect of electrolytes on the stability of the deoxyribonucleate helix," <i>J. Am. Chem. Soc.</i> , 1962, 84, 1329-1338 | |
| | 53 | Hutton, James R., "Renaturation kinetics and thermal stability of DNA in aqueous solutions of formamide and urea," <i>Nuc. Acids Res.</i> , October 1977, 3537-3555 | |
| | 54 | Matthews, et al., "Analytical strategies for the use of DNA probes," <i>Anal. Biochem.</i> , 1988, 169, 1-25 | |
| | 55 | Murakami, et al., "Highly sensitive detection of DNA using enzyme-linked DNA-probe. 1. Colorimetric and fluorometric detection," <i>Nuc. Acids Res.</i> , 1989, 17(14), 5587-5595 | |
| | 56 | Nielsen, et al., "Sequence-selective recognition of DNA by strand displacement with a thymine-substituted polyamide," <i>Science</i> , 1991, 254, 1497-1500 | |
| | 57 | Quartin, et al., "Effect of ionic strength on the hybridization of oligodeoxynucleotides with reduced charge due to methylphosphonate linkages to unmodified oligodeoxynucleotides containing the complementary sequence," <i>Biochem.</i> , 1989, 28, 1040-1047 | |
| | 58 | Thompson, et al., "Molecular hybridization with RNA probes in concentrated solutions of guanidine thiocyanate," <i>Anal Biochem.</i> , 1987, 163, 281-291 | |
| | 59 | Van Ness, et al., "The use of oligodeoxynucleotide probes in chaotrope-based hybridization solutions," <i>Nuc. Acids Res.</i> , 1991, 19(19), 5143-5151 | |
| 14 | 60 | <i>J. Med. Chem.</i> , 1990, 33, 136 | |
| EXAMINER | | DATE CONSIDERED | 12/28/04 |



| | | |
|---|---|---------------------------------|
| Form PTO-1449 Modified List of Patent and Publications Cited by Applicant (Use several sheets if necessary) U.S. Department of Commerce Patent and Trademark Office | Docket No. GLIS-0161 | Application No. 10/730,643 |
| | Applicant Brian C. Froehler, et al. | |
| | Filing Date December 8, 2003 | Group Not Yet Assigned |
| | Confirmation No. Not Yet Assigned | |
| OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.) | | |
| 61 | <i>Biochim. Biophys. Acta</i> , 1993, 1141, 262 | |
| 62 | <i>J. Med. Chem.</i> , 1996, 39, 1521 | |
| 63 | <i>J. Pharm. Chem.</i> , 23, Engl. Translation from Khimoiko-farmatsevticheskii Zhurnal, June 1989, 23(6), 705-707 | |
| 64 | P.I. Vainilavichyus, et al., 1989, pages 500-503, synthesis and biological activity of ethyl (6-phenoxy-4-pyrimidinylthio)acetates, <i>J. Am. Chem. Soc.</i> , October 5, 1959, 5215-5217 | |
| 65 | Okumura, et al., <i>The Chemistry of Antimycin A</i> , <i>J. Chem. Soc.</i> , 1955, Chesterfield, et al., 3478-3481 | |
| 66 | <i>Chemical Abstract</i> , 1995, 106, 84632 | |
| 67 | <i>J. Biol. Chem.</i> , December 10, 1971, 246(23), 7125-7130 | |
| 68 | Batra, et al., "A study of the relationship of structure and activity of antimycin A in the induction of carotenoid synthesis in mycobacterium marinum," <i>J. Chem. Soc.</i> , 1953, 2049-2050 | |
| 69 | Alderfer, et al., "Comparative studies on homopolymers of adenylic acid possessing different C-2' substituents of the furanose. Poly(deoxyriboadenylic acid), poly(riboadenylic acid), poly(2'-O-methyladenylic acid), and poly(2'-O-ethyladenylic acid)," <i>Biochem.</i> , 1974, 13(8), 1615-1622 | |
| 70 | Al-Razzak, et al., "5-quinone derivatives of 2'-deoxyuridine 5'-phosphate: inhibition and inactivation of thymidylate synthase, antitumor cell, and antiviral studies," <i>J. Med. Chem.</i> , 1987, 30, 409-419 | |
| EXAMINER <i>[Signature]</i> | | DATE CONSIDERED 12/28/04 |



| | | | |
|---|----|--|-------------------------------|
| Form PTO-1449 Modified List of Patent and Publications Cited by Applicant (Use several sheets if necessary) U.S. Department of Commerce Patent and Trademark Office | | Docket No. GLIS-0161 | Application No. 10/730,643 |
| | | Applicant Brian C. Froehler, et al. | |
| | | Filing Date December 8, 2003 | Group Not Yet Assigned |
| | | Confirmation No. Not Yet Assigned | |
| OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.) | | | |
| 2 | 71 | DeClercq, et al., "Thymidylate synthetase as target enzyme for the inhibitory activity of 5-substituted 2'-deoxyuridines on mouse leukemia L1210 cell growth," <i>Molecular Pharmacology</i> , 1980, 19, 321-330 | |
| | 72 | Herdewijn, et al., "Synthesis of 2'-5' connected oligonucleotides. Prodrugs for antiviral and antitumoral nucleosides," <i>Helv. Chem. Acta.</i> , 1989, 72, 1739-1748 | |
| | 73 | Hobbs, et al., "Palladium-catalyzed synthesis of alkynylamino nucleosides. A universal linker for nucleic acids," <i>J. Org. Chem.</i> , 1989, 54, 3420-3422 | |
| | 74 | Kielanowska, et al., "Preparation and properties of poly 2'-O-ethylcytidylic acid," <i>Nuc. Acids Res.</i> , March 1976, 3(3), 817-824 | |
| | 75 | Kumar, et al., "Synthesis and antiviral activity of novel 5-(1-azido-2-haloethyl) and 5-(1-azido-,amino-,or methoxyethyl) analogs of 2'-deoxyuridine," <i>J. Med. Chem.</i> , 1993, 36, 2470-2474 | |
| | 76 | Leusink, et al., "Studies in group IV organometallic chemistry XXIV. Structure of products obtained in the hydrostannation of ethynes," <i>J. Organometal Chem.</i> , 1967, 9, 285-294 | |
| | 77 | Loke, et al., "Characterization of oligonucleotide transport into living cells," <i>Proc. Natl. Acad. Sci.</i> , 1989, 86, 3474-3478 | |
| | 78 | Petrie, et al., "A novel biotinylated adenylate analogue derived from pyrazolo[3,4-d]pyrimidine for labeling DNA probes," <i>Biocon. J. Chem.</i> , 1991, 2, 441-446 | |
| | 79 | Ransford, et al., "2'-O-ethyl pyrimidine nucleosides (1)," <i>J. carbohydrates Nucl. Nucl.</i> , 1974, 1(3), 275-278 | |
| u | 80 | Robins, et al., "Solvent, not palladium oxidation state, is the primary determinant for successful coupling of terminal alkynes with iodo-nucleosides," <i>Tet. Letts.</i> , 1990, 31(26), 3731-3734 | |
| EXAMINER | | DATE CONSIDERED 12/28/04 | |



Sheet 9 of 13

| | | |
|---|--|---|
| Form PTO-1449 Modified List of Patent and Publications Cited by Applicant (Use several sheets if necessary) U.S. Department of Commerce Patent and Trademark Office | Docket No. GLIS-0161 | Application No. 10/730,643 |
| | Applicant Brian C. Froehler, et al. | |
| | Filing Date December 8, 2003 | Group Not Yet Assigned |
| | Confirmation No. Not Yet Assigned | |
| OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.) | | |
| | 81 | Robins, et al., <i>J. Org. Chem.</i> , 1983, 48, 1854-1862 |
| | 82 | Robins, et al., <i>Tet. Letts.</i> , 1981, 22, 421-424 |
| | 83 | Vincent, et al., <i>Tet. Letts.</i> , 1981, 22, 945-947 |
| | 84 | Vincent, et al., "Synthese de nucleosides substitues en C-5 PAR un carbocycle ou un heterocycle par couplages d'organozinciques avec l'iodo-5-O-bis(trimethylsilyl)-3',5' desoxy-2' uridine catalyses par des complexes organopalladies," <i>Tet. Letts.</i> , 1984, 25(2), 201-202 |
| | 85 | Wigerinck, et al., "5-(5-bromothien-2-yl)-2'-deoxyuridine and 5-(5-chlorothien-2-yl)-2'-deoxyuridine are equipotent to (E)-5-(2-bromovinyl)-2'-deoxyuridine in the inhibition of herpes simplex virus type 1 replication," <i>J. Med. Chem.</i> , 1991, 34, 2383-2389 |
| | | |
| | | |
| | | |
| | | |
| | | |
| EXAMINER | | DATE CONSIDERED 12/28/04 |



| | | | | | | |
|---|---------------|-----------------------|---------------------|--|-------------------------------|----------|
| Form PTO-1449 Modified List of Patent and Publications Cited by Applicant (Use several sheets if necessary) U.S. Department of Commerce Patent and Trademark Office | | | | Docket No. GLIS-0161 | Application No. 10/730,643 | |
| | | | | Applicant Brian C. Froehler, et al. | | |
| | | | | Filing Date December 8, 2003 | Group Not Yet Assigned | |
| | | | | Confirmation No. Not Yet Assigned | | |
| U. S. PATENT DOCUMENTS | | | | | | |
| Examiner Initial | | Document No. | Date | Name | Class | Subclass |
| <i>h</i> | 86 | 4,415,732 | 11/15/83 | Caruthers, et al. | _____ | _____ |
| <i>h</i> | 87 | 4,458,066 | 07/03/84 | Caruthers, et al. | _____ | _____ |
| <i>h</i> | 88 | 4,725,677 | 02/16/88 | Köster | _____ | _____ |
| <i>h</i> | 89 | 4,904,582 | 02/27/90 | Tullis | _____ | _____ |
| <i>h</i> | 90 | 4,959,463 | 09/25/90 | Froehler, et al. | _____ | _____ |
| <i>h</i> | 91 | 5,264,423 | 11/23/93 | Cohen, et al. | _____ | _____ |
| <i>h</i> | 92 | 5,484,908 | 01/1996 | Froehler, et al. | 536 | 24.31 |
| | 93 | 07/864,873 | 04/06/92 | | _____ | _____ |
| <i>h</i> | 94 | 6,235,887 | 5/24/01 | Froehler et al. | _____ | _____ |
| <i>h</i> | 95 | 3,527,865 | 09/1970 | Taborsky | 424 | 230 |
| <i>h</i> | 96 | 4,762,830 | 08/1988 | Sturm, et al. | 514 | 270 |
| <i>h</i> | 97 | 4,847,259 | 07/1989 | Sturm, et al. | 514 | 274 |
| <i>h</i> | 98 | 5,679,676 | 10/1997 | Kruger, et al. | 514 | 229 |
| <i>h</i> | 99 | 5,883,250 | 03/1999 | Kruger, et al. | 540 | 544 |
| <i>h</i> | 100 | 6,001,879 | 12/1999 | Seitz, et al. | 514 | 616 |
| <i>h</i> | 101 | 6,380,386 | 04/30/02 | Seitz, et al. | 544 | 214 |
| <i>h</i> | 102 | 5,013,830 | 05/07/91 | Ohtsuka, et al. | 536 | 27 |
| EXAMINER <i>Per h</i> | | | | DATE CONSIDERED 12/28/04 | | |



| Form PTO-1449 Modified List of Patent and Publications Cited by Applicant (Use several sheets if necessary) U.S. Department of Commerce Patent and Trademark Office | | | | Docket No. GLIS-0161 | Application No. 10/730,643 | |
|---|-----|-----------------|----------|--|-------------------------------|----------|
| | | | | Applicant Brian C. Froehler, et al. | | |
| | | | | Filing Date December 8, 2003 | Group Not Yet Assigned | |
| | | | | Confirmation No. Not Yet Assigned | | |
| U. S. PATENT DOCUMENTS | | | | | | |
| Examiner Initial | | Document No. | Date | Name | Class | Subclass |
| Q | 103 | 5,034,506 | 07/23/91 | Summerton, et al. | | |
| | 104 | 5,079,352 | 01/1992 | Gelfand, et al. | 536 | 23.2 |
| | 105 | 5,204,455 | 04/20/93 | Froehler, et al. | | |
| | 106 | 5,256,775 | 10/26/93 | Froehler | | |
| | 107 | 5,264,564 | 11/23/93 | Matteucci | | |
| | 108 | 5,272,057 | 12/21/93 | Smulson, et al. | | |
| | 109 | 5,399,676 | 03/21/95 | Froehler | | |
| | 110 | 5,440,040 | 08/08/95 | Gronowitz | 544 | 216 |
| | 111 | 5,466,786 | 11/14/95 | Buhr, et al. | | |
| | 112 | 5,484,908 | 01/1996 | Froehler | 536 | 24.31 |
| | 113 | 5,495,009 | 02/27/96 | Matteucci, et al. | | |
| | 114 | 5,596,086 | 01/21/97 | Matteucci, et al. | | |
| | 115 | 5,645,985 | 07/08/97 | Froehler, et al. | 435 | 6 |
| M | 116 | 5,840,867 | 11/1998 | Toole, et al. | 536 | 23.1 |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| EXAMINER | | | | DATE CONSIDERED | | |
| <i>[Signature]</i> | | | | 12/28/04 | | |



| | | |
|---|--|-------------------------------|
| Form PTO-1449 Modified List of Patent and Publications Cited by Applicant (Use several sheets if necessary) U.S. Department of Commerce Patent and Trademark Office | Docket No. GLIS-0161 | Application No. 10/730,643 |
| | Applicant Brian C. Froehler, et al. | |
| | Filing Date December 8, 2003 | Group Not Yet Assigned |
| | Confirmation No. Not Yet Assigned | |

FOREIGN PATENT DOCUMENTS

| Examiner Initial | | Document No. | Date | Country | Translation | |
|-----------------------------|-----|--------------|----------|---------------------------------|-------------|----|
| | | | | | YES | NO |
| <i>12</i> | 117 | 0 375 408 A1 | 06/27/90 | EPO | | |
| | 118 | 0 486 477 A2 | 12/14/87 | EPO | | |
| | 119 | WO 89/12060 | 12/14/89 | PCT | | |
| | 120 | 0 415 901 A2 | 03/06/91 | EPO | | |
| | 121 | 0 492 570 A1 | 12/23/91 | EPO | | |
| | 122 | WO 88/08001 | 10/20/88 | PCT | | |
| | 123 | WO 89/12061 | 12/14/89 | PCT | | |
| | 124 | WO 90/15884 | 12/27/90 | PCT | | |
| | 125 | WO 92/02258 | 02/20/92 | PCT | | |
| | 126 | WO 92/05186 | 04/02/92 | PCT | | |
| | 127 | WO 92/06102 | 04/16/92 | PCT | | |
| | 128 | WO 92/09705 | 06/11/92 | PCT | | |
| | 129 | WO 92/10590 | 06/25/92 | PCT | | |
| | 130 | WO 90/06934 | 06/28/90 | PCT | | |
| | 131 | 2 210 861 | 11/1972 | Germany | | |
| | 132 | 0 382 375 | 08/1990 | EPO | | |
| <i>13</i> | 133 | 0 463 488 | 01/1992 | EPO | | |
| EXAMINER <i>[Signature]</i> | | | | DATE CONSIDERED <i>12/28/04</i> | | |



| | | |
|---|--|-------------------------------|
| Form PTO-1449 Modified List of Patent and Publications Cited by Applicant (Use several sheets if necessary) U.S. Department of Commerce Patent and Trademark Office | Docket No. GLIS-0161 | Application No. 10/730,643 |
| | Applicant Brian C. Froehler, et al. | |
| | Filing Date December 8, 2003 | Group Not Yet Assigned |
| | Confirmation No. Not Yet Assigned | |

FOREIGN PATENT DOCUMENTS

| Examiner Initial | | Document No. | Date | Country | Translation | |
|------------------------|-----|--------------|----------|---------------------------------|-------------|----|
| | | | | | YES | NO |
| 4 | 134 | 0 920 867 | 06/1999 | EPO | | |
| | 135 | 1 365 391 | 06/1974 | Great Britain | | |
| | 136 | 61-205262 | 09/1986 | Japan | | |
| | 137 | WO 92/18487 | 10/1992 | PCT | | |
| | 138 | WO 94/02470 | 02/1994 | PCT | | |
| | 139 | WO 95/14674 | 06/1995 | PCT | | |
| | 140 | WO 95/24383 | 09/1995 | PCT | | |
| | 141 | WO 88/10264 | 12/1988 | PCT | | |
| | 142 | WO 91/06626 | 05/16/91 | PCT | | |
| | 143 | WO 92/05186 | 04/02/92 | PCT | | |
| | 144 | 0 269 574 | 06/01/88 | EPO | | |
| | 145 | 0 251 786 A3 | 01/07/88 | EPO | | |
| | 146 | 0 286 028 A2 | 10/12/88 | EPO | | |
| M | 147 | 1,311,201 | 12/08/92 | Canada | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| EXAMINER <i>Joe Li</i> | | | | DATE CONSIDERED <i>12/28/04</i> | | |